IPS

WELD-ON

MATERIAL SAFETY DATA SHEET

Date Revised: MAY 2003 Supersedes: MAY 2002

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. IPS Corporation urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on this sheet.

SECTION I

MANUFACTURER'S NAME

IPS Corporation

ADDRESS

17109 S. Main St., P.O. Box 379, Gardena, CA. 90248

data linking Tetrahydrofuran exposure with cancer in humans

ORM-D

Transportation Emergencies:

CHEMTREC: (800) 424-9300 or 3 E COMPANY (800) 451-8346

Medical Emergencies:

3 E COMPANY (24 Hour No.) (800) 451-8346

Business: (310) 898-3300

CHEMICAL NAME and FAMILY

Solvent Cement for PVC Plastic Pipe Mixture of PVC Resin and Organic Solvents TRADE NAME:

WELD-ON WET R' DRY 2725 Low VOC PVC Plastic Pipe Cement

FORMULA: Proprietary

SECTION II - HAZARDOUS INGREDIENTS

	<u> </u>								
None of the ingredients below are listed as							DUPON	т	
carcinogens by IARC, NTP or OSHA	CAS#	APPROX %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL	(A) AEL	(B) STEL	
Tetrahydrofuran (THF)**	109-99-9	33 - 50	200 PPM	250 PPM	200 PPM	250 PPM	50 PPM	75 PPM	
Methyl Ethyl Ketone (MEK)	78-93-3	10 - 33*	200 PPM	300 PPM	200 PPM	300 PPM			
Cyclohexanone	108-94-1	4 - 22	25 PPM Skin		25 PPM Skir	n			
All of the constituents of Weld-On adhesive pro	ducts are either exempt	from or are li	sted on the TS	CA inventory of	of chemical sul	bstances mainta	ined by the U	S EPA.	

^{*} Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning

⁽A) Dupont and BASF mfg's Acceptable Exposure Limit (AEL) guidelines for 8 hour and 12 hour TWA, (B) Dupont/BASF recommended STEL for 15 minute TWA. **Information found in a report from the National Toxicology Program (NTP) on an inhalation study in rats and mice suggests that Tetrahydrofuran (THF) can cause tumors in animals. In the study the rats and mice were exposed to THF vapor levels up to 1800 PPM for two years (their lifetime), 6 hours/day, 5 days/week. Test results showed evidence of liver tumors in female mice and kidney tumors in male rats. No evidence of tumors was seen in female rats and male mice. There is no

BULK SHIPPING INFORM	SPECIAL HAZARD DESIGNATIONS				
DOT Shipping Name:	Adhesive		HMIS	NFPA	HAZARD RATING
DOT Hazard Class:	3	HEALTH:	2	2	0 - MINIMAL
Identification Number:	UN 1133	FLAMMABILITY:	3	3	1 - SLIGHT
Packaging Group:	II	REACTIVITY:	0	1	2 - MODERATE
Label Required:	Flammable Liquid	PROTECTIVE			3 - SERIOUS
		EQUIPMENT:	В - Н		4 - SEVERE
SHIPPING INFORMATION	B = Eye, Hand/Skin (for	normal solvent-w	elding, small	spill, clean-up activities)	
DOT Shipping Name:	H = Eye, Hand/Skin, Respiratory Protection and Impermeable Apron (splash/				

DOT Hazard Class: immersion risks) SECTION III - PHYSICAL DATA

APPEARANCE	ODOR BOILING POINT (°F/°C)			
Clear or aqua blue, medium syrupy liquid	Ethereal	151°F (67°C) Based on first boiling component: THF		
SPECIFIC GRAVITY @ 73°F ± 3.6° (23°C ± 2°)	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME (%)		
Typical 0.982 ± 0.040	143 mm Hg. based on first boiling	Approx: 70 - 80 %		
	component, THF @ 68°F (20°C)			
VAPOR DENSITY (Air = 1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER		
2.49	> 1.0	Solvent portion completely soluble in water.		
		Resin portion separates out.		

VOC STATEMENT: Maximum VOC emissions as applied and tested per SCAQMD Rule 1168, Test Method 316A: 510 Grams/Liter (g/l).

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT		FLAMMABLE LIMITS	LEL	UEL
	-4°F (-20°C) T.C.C. Based on THF	(PERCENT BY VOLUME)	2.0	11.8

FIRE EXTINGUISHING MEDIA

Ansul "Purple K" potassium bicarbonate dry chemical, any appropriately sized ABC dry chemical, carbon dioxide or foam extinguisher can be used for small fires. Use of a water fog by trained personnel can extinguish small/large fires.

SPECIAL FIRE FIGHTING PROCEDURES

Evacuate enclosed areas. Stay upwind. Close quarters or confined spaces require self-contained breathing apparatus, positive pressure mask or airline mask. Use of a water fog by trained personnel can extinguish small/large fires and avoid water flow or water streams/spray distributing burning material or contaminated water over a large area or into sewers or storm drains. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source(s) of ignition at or near ground or lower level(s) and flash back.

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and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.

SECTION V - HEALTH HAZARD DATA							
PRIMARY ROUTES OF ENTRY:		Inhalation		Skin Contact	Evo Contact		Ingestion
OF ENTRY: X Inhalation X Skin Contact Eve Contact Ingestion EFFECT OF OVEREXPOSURE							
ACUTE:	JILE						
Inhalation:							n of eyes and nasal passages.
Skin Contact: Skin Absorption:		•	-		iting in skin irritation. Der on of harmful amounts of		occur with prolonged contact.
Eve Contact:	•	•		•			with the liquid. Vapors slightly uncomfortable.
Ingestion: CHRONIC:				-	cause mental sluggishne		s exposed to 5000 ppm THF for 90 days.
CHRONIC:				• .	ne NOEL was reported to		
REPRODUCTI N. AF		ERATOGENICITY	MUTAGEN		ITY SENSITIZATION TO PI	RODUCT S	SYNERGISTIC PRODUCTS N. AV.
						r respirato	ry system may have increased
susceptibility to the toxicity							
EMERGENCY AND FIRST Inhalation:			ove to fresh	air and if breathing	stopped give artificial res	eniration I	f breathing is difficult, give oxygen. Call
imalatori.	physician.	by vapors, rem	ove to nesin	an and it bleathing .	stopped, give artificial re-	spiration. I	breathing is difficult, give oxygen. Oall
Eye Contact:	•			inutes and call a phy			
Skin Contact:	Remove cont medical atter		ing and sho	es. Wash skin with p	lenty of soap and water f	or at least	15 minutes. If irritation develops, get
Ingestion:			or milk. Do	not induce vomiting	. Call physician or poiso	n control ce	enter immediately.
			SECTI	ON VI - REA	CTIVITY		
STABILITY UNSTABLE			•	ONS TO AVOID			
STABLE INCOMPATIBILITY		X	Keep awa	y trom neat, sparks,	open flame and other sou	irces of ign	ition.
(MATERIALS TO AVOID)			acids, chlori	nated compounds, str	ong oxidizers and isocya	nates.	
HAZARDOUS DECOMPOS			vida aarban	diovido budrogon ob	Jorido and amaka		
When forced to burn, this p HAZARDOUS	MAY OCCU		xiue, carbon	CONDITIONS TO			
POLYMERIZATION	WILL NOT		Х	•	heat, sparks, open flame		sources of ignition.
		SECTION	VII - S	PILL OR LE	AK PROCEDU	IRES	
STEPS TO BE TAKEN IN C					a large amount of water	Cantain line	rid with good or couth. Aboorb with
sand or nonflammable abso							uid with sand or earth. Absorb with
WASTE DISPOSAL METHO	D						
·		-	· ·	•	•	quantities	should not be permitted to enter
drains. Empty containers sh				•			
			<u> </u>	ECIAL PRO	TECTION INFO	ORMA	TION
RESPIRATORY PROTECT		•• •		. Ilmita anntalmad in C			succeed these limits was of a NIOCH
							exceed those limits, use of a NIOSH or is limited. Use it only for a single
short-term exposure. For er		other conditions	where shor	t-term exposure guide	elines may be exceeded,	use an app	roved positive pressure
self-contained breathing ap	oaratus.						
VENTILATION Use only with adequate ver	tilation. Do not	t use in close a	uarters or co	onfined spaces. Oper	doors and/or windows to	ensure air	flow and air changes. Use local exhaust
Use only with adequate ventilation. Do not use in close quarters or confined spaces. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed in Section II. Use only explosion-proof ventilation							
equipment. PROTECTIVE GLOVES	DVA control	rubbar alayan fe	r froguent o	linning/immornion II	no of latov/nitrila	EVE DDO	OTECTION Splashproof chemical goggles,
				lipping/immersion. U quate protection wher			Id, safety glasses (spectacles) with brow
surgical gloves or solvent resistant barrier cream should provide adequate protection when normal solvent- cement welding practices and procedures are used for solvent welding of plastic sheet/pipe joints. face shield, safety glasses (spectacles) with brow guards & side shields, etc. as appropriate for exposure.							
OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES							
Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.							
SECTION IX - SPECIAL PRECAUTIONS							
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING							
Store in the shade between 40°F - 110°F (5°C - 43.7°C). Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.							
OTHER PRECAUTIONS	OTHER PRECAUTIONS Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All material handling equipment should be						
Follow all precautionary info electrically grounded.	rmation given	on container lat	el, product	bulletins and our solv	ent cementing literature. A	All material	handling equipment should be
The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from							
the use thereof.	the use thereof.						

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